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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,291	10/14/2004	Martin J Edwards	GB02 0042 US	2229

24738 7590 02/21/2007

PHILIPS ELECTRONICS NORTH AMERICA CORPORATION
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SAN JOSE, CA 95131

EXAMINER

CHOW, DOON Y

ART UNIT	PAPER NUMBER
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2629

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/511,291	EDWARDS, MARTIN J	
	Examiner	Art Unit	
	Dennis-Doon Chow	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (2003/0048262).

Regarding to claims 1 and 7, Wu discloses an electronic device comprising a display panel (204, Fig. 2) having at least one substrate on which are formed display pixels defining a display area which information is displayed, the device further including a drive circuit for driving the pixels, and touch input means [0023] operable by a user to perform input functions, the touch input means comprising a plurality of touch elements which are spaced from the substrate of the display panel (Figs. 2 and 11) and a sensing circuit connected to the touch elements for sensing touching of the touch elements by a user [0023].

Wu does not explicitly disclose carrying both the drive circuit for the pixels and the sensing circuit of the touch input means are on the substrate. However, the examiner takes Official Notice that forming both a drive circuit and a sensing circuit, such as a drive circuit for display pixels and a sensing circuit of a touch input means, in a small electronic device is well known in the art. Therefore, it would have been obvious

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to one of ordinary skill in the art to integrate Wu's drive circuit and sensing circuit on the same substrate so that the size of the electronic device can be reduce.

Regarding to claim 2, Wu does not disclose using thin film circuits in the pixel drive circuit and the sensing circuit. However, the examiner takes Official Notice that using thin film circuits in a pixel drive circuit and a sensing circuit is well known in the art. It would have been obvious to one of ordinary skill in the art to use well known thin film circuits in Wu's pixel drive circuit and sensing circuit since Wu does not disclose how the pixel drive circuit and the sensing circuit are constructed.

Regarding to claim 3, Wu further discloses the electronic device includes a housing that surrounds the display area of the display panel, and the touch elements are located in the housing (Figs. 2 and 11).

Regarding to claim 4, Wu further discloses the display panel forms part of a display module which includes a frame in which the display panel is carried, and wherein the touch elements are mounted to the frame of the display module (Figs. 2 and 11).

Regarding to claim 5, Wu further discloses the sensing circuit is responsive to a due to a user touching the touch change in capacitance at a touch element [0023].

Regarding to claim 6, Wu further discloses the sensing circuit is responsive to a change in resistance at a touch element resulting from a user touching the touch element [0023].

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Regarding to claim 8, Wu further discloses the touch elements are arranged in one or more arrays extending adjacent one or more sides of the display panel (Figs. 2 and 11).

Regarding to claim 9, Wu further discloses the sensing circuit is responsive to touching of touch elements to control scrolling of information displayed in the display area [0023].

Regarding to claim 10, Wu does not explicitly disclose the display panel is an active matrix display panel. However, the examiner takes Official Notice that active matrix display panel is old and well known in the art. It would have been obvious to one of ordinary skill in the art to use an active matrix display panel as the display panel in Wu device because the active matrix display panel displays better image than the passive matrix display panel.

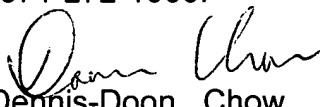
Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis-Doon Chow whose telephone number is 571-272-7767. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on 571-272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Dennis-Doon Chow
Primary Examiner
Art Unit 2629

D. Chow
February 16, 2007